

Ernest Boampong, MPH

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CAREER PROFILE

- Entomologist and public health professional with significant knowledge in vector surveillance and integrated vector management. Capable of designing and implementing field and laboratory research on mosquito and other vector populations to aid disease prevention and control initiatives.
- Proven expertise as a Vector Control Officer with hands-on experience in larval and adult mosquito monitoring, species identification, and evaluation of insecticide efficacy.
- As a public health officer, I am skilled at designing and implementing community-based interventions, environmental management methods, and health education programs focused on reducing vector-borne disease transmission.
- Proficiency in researching insecticide resistance mechanisms, susceptibility profiles, and resistance management techniques; impressive track record of collaborating with academic and public health organizations.

EDUCATION

Arizona State University, School of Life Sciences, Tempe, Phoenix, Arizona, USA

Doctor of Philosophy, Environmental Life Sciences.

Ongoing

University of Ghana, School of Public Health, Legon, Accra, Ghana

Master of Public Health (MPH), Biological, Environmental, and Occupational Health.

2024

University of Cape Coast, School of Biological Sciences, Cape - Coast, Ghana

Bachelor of Science, Entomology and Wildlife.

2019

EXPERIENCE

Arizona State University, Tempe, Arizona, USA

Teaching and Research Assistant

2024 - Present

- Conduct Research on insecticide susceptibility profiles in Maricopa County, AZ
- Mentored and trained 2 undergraduates to assist with my ongoing project
- Teaching assistant for 3 courses: Evolution, Ecology and Ecology Lab
- Graded assignments and projects of 150 undergraduate students
- Served as an instructor for recitations for 70 undergraduate students

- Coordinated the pilot implementation of Adaptive entomological surveillance in 10 sentinel sites in Ghana
- Trained 40 volunteers and 10 community supervisors for data collection using Human Landing Catches (HLC) and pyrethrum spray catches method
- Trained 3 district disease control officers and 3 district directors of health services on entomological surveillance
- Coordinate supervisory visits to 4 entomological surveillance implementation sites
- Supervised and performed on-site training for 40 volunteers and 10 community supervisors on HLC data collections
- Coordinate, collect and analyze entomological surveillance reports

National Malaria Elimination Programme (NMEP), Ghana

- Successfully set up and coordinated entomological surveillance activities in 10 sentinel sites in Ghana
- Trained 60 volunteers and 20 community supervisors to undertake entomological surveillance activities in Ghana
- Trained 20 district malaria focal persons and 10 district directors of health services in Ghana
- Supervised entomological surveillance activities in 6 different sites/communities
- Educated the public in the uptake of vector control interventions through community information centers
- Performed monitoring visits to 10 communities undertaking seasonal malaria chemoprevention therapies.
- Educated caregivers on the need for seasonal malaria chemoprevention uptake
- Team Lead during ITN Point mass distribution in Ada, Bole and Okere districts in Ghana
- Team lead for entomology team investigating first dengue fever outbreak in Northern, Central and Eastern regions of Ghana
- Participated and contributed in the development of malaria strategic documents and policies for Ghana
- Trained 20 spray operatives and 5 supervisors for larval source management (LSM) activities
- Supervised 5 different districts for LSM activities
- Participated as a researcher in developing insecticide susceptibility profiles for programmatic decisions for 6 consecutive years.
- Managed mosquito colony during field collections
- Designed and created PowerPoint presentations during management meetings
- Mentored 6 interns with the vector control unit

SKILLS

- Stata
- R studio
- Grass GIS
- DHIS2
- Microsoft Office